

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P205417

Luminaire Tested: **LD6B30D010 EU6B30509727 6LBSLI1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P205417  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B30D010 EU6B30509727 6LBSLI1  
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT  
SHALLOW DISTRIBUTION WITH SPECULAR CLEAR TRIM  
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W  
DL3-29.67 W DLE-29.73 W  
Light Source: HIGH LUMEN LED  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2275.2 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 0.91 / 0.91 / 1.04  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

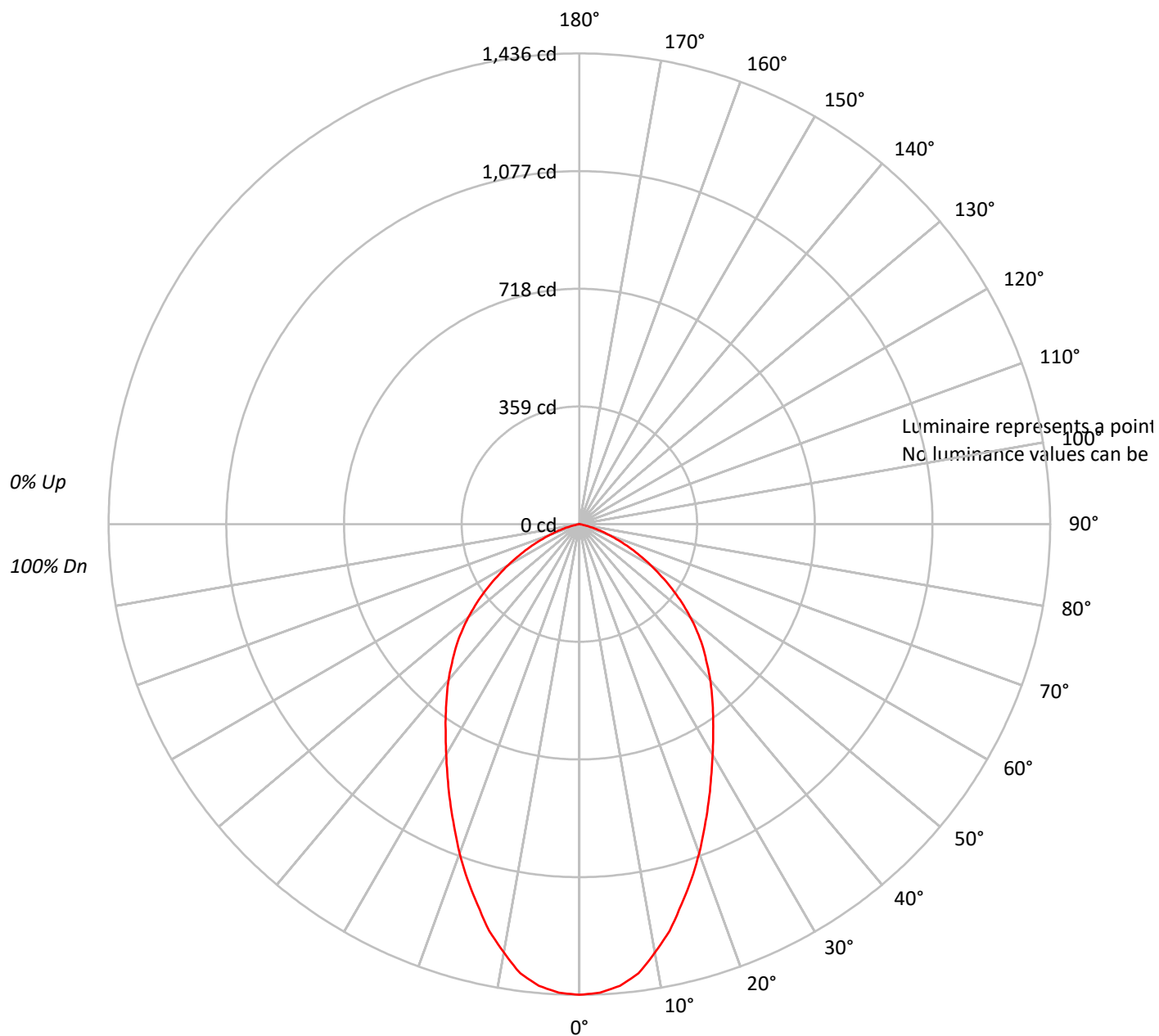
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     |  | 20  |     |     |  |     | 20  |     |  |     |     | 20  |
| RC  | 80  |     |     |     | 70  |     |     |     |  | 50  |     |     |  |     | 30  |     |  |     |     | 10  |
| RW  | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |  | 50  | 30  | 10  |
| RCR |     |     |     |     |     |     |     |     |  |     |     |     |  |     |     |     |  |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 |  | 111 | 111 | 111 |  | 106 | 106 | 106 |  | 102 | 102 | 102 |
| 1   | 111 | 107 | 104 | 101 | 109 | 105 | 102 | 99  |  | 101 | 99  | 96  |  | 97  | 95  | 93  |  | 94  | 92  | 91  |
| 2   | 103 | 96  | 91  | 86  | 100 | 94  | 89  | 85  |  | 91  | 87  | 83  |  | 88  | 84  | 81  |  | 85  | 82  | 79  |
| 3   | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  |  | 82  | 76  | 72  |  | 79  | 75  | 71  |  | 77  | 73  | 70  |
| 4   | 88  | 78  | 70  | 64  | 86  | 77  | 69  | 64  |  | 74  | 68  | 63  |  | 72  | 67  | 62  |  | 70  | 65  | 62  |
| 5   | 82  | 71  | 63  | 57  | 80  | 70  | 62  | 57  |  | 67  | 61  | 56  |  | 66  | 60  | 55  |  | 64  | 59  | 55  |
| 6   | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 51  |  | 62  | 55  | 50  |  | 60  | 54  | 50  |  | 59  | 53  | 49  |
| 7   | 71  | 59  | 51  | 46  | 70  | 58  | 51  | 45  |  | 57  | 50  | 45  |  | 55  | 49  | 45  |  | 54  | 49  | 45  |
| 8   | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  |  | 52  | 46  | 41  |  | 51  | 45  | 41  |  | 50  | 45  | 41  |
| 9   | 63  | 50  | 43  | 38  | 61  | 50  | 43  | 38  |  | 49  | 42  | 38  |  | 48  | 42  | 37  |  | 47  | 41  | 37  |
| 10  | 59  | 47  | 40  | 35  | 58  | 46  | 39  | 35  |  | 45  | 39  | 35  |  | 45  | 39  | 34  |  | 44  | 38  | 34  |

**AVERAGE LUMINANCE (cd/sqm):**





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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 132.3  | 5.8       |
| 10°-20°   | 336.8  | 14.8      |
| 20°-30°   | 429.5  | 18.9      |
| 30°-40°   | 445.4  | 19.6      |
| 40°-50°   | 410.4  | 18.0      |
| 50°-60°   | 308.7  | 13.6      |
| 60°-70°   | 166.7  | 7.3       |
| 70°-80°   | 44.7   | 2.0       |
| 80°-90°   | 0.7    | 0.0       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-30°    | 898.6  | 39.5      |
| 0°-40°    | 1344.0 | 59.1      |
| 0°-60°    | 2063.2 | 90.7      |
| 0°-90°    | 2275.2 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2275.2 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | Flux |
|-----|------|------|
| 0°  | 1436 |      |
| 5°  | 1414 | 132  |
| 15° | 1201 | 337  |
| 25° | 933  | 430  |
| 35° | 711  | 445  |
| 45° | 534  | 410  |
| 55° | 346  | 309  |
| 65° | 167  | 167  |
| 75° | 39   | 45   |
| 85° | 0    | 1    |
| 90° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |        |
|-------|--------|
| 0°    | 1435.8 |
| 2.5°  | 1430.9 |
| 5°    | 1414.0 |
| 7.5°  | 1382.6 |
| 10°   | 1327.0 |
| 12.5° | 1271.4 |
| 15°   | 1201.3 |
| 17.5° | 1136.0 |
| 20°   | 1068.4 |
| 22.5° | 998.3  |
| 25°   | 933.0  |
| 27.5° | 870.2  |
| 30°   | 812.1  |
| 32.5° | 759.0  |
| 35°   | 710.6  |
| 37.5° | 664.7  |
| 40°   | 621.2  |
| 42.5° | 575.3  |
| 45°   | 534.2  |
| 47.5° | 488.3  |
| 50°   | 442.3  |
| 52.5° | 394.0  |
| 55°   | 345.6  |
| 57.5° | 297.3  |
| 60°   | 251.4  |
| 62.5° | 207.9  |
| 65°   | 166.8  |
| 67.5° | 128.1  |
| 70°   | 94.3   |
| 72.5° | 65.3   |
| 75°   | 38.7   |
| 77.5° | 16.9   |
| 80°   | 4.8    |
| 82.5° | 0.0    |
| 85°   | 0.0    |
| 87.5° | 0.0    |
| 90°   | 0.0    |



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— 0°-180°







(END OF REPORT)